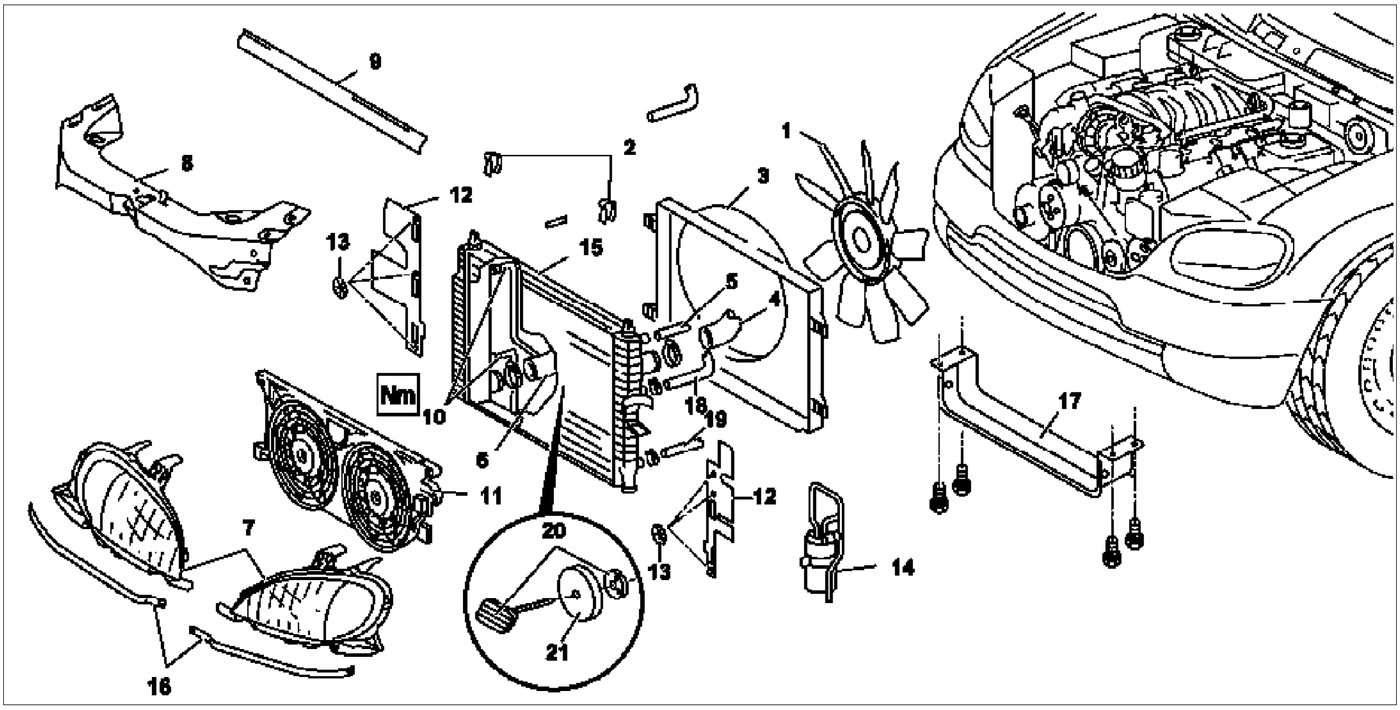
ENGINE 112.942 in MODEL 163.154
ENGINE 112.970 in MODEL 163.157
ENGINE 113.942 in MODEL 163.172
ENGINE 113.965 in MODEL 163.175
ENGINE 113.981 in MODEL 163.174



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Shown on Model 163.154 with Engine 112

1 *Viscous fan*
2 *Plate clamps of fan shroud*
3 *Fan shroud*
4 *Coolant line*
5 *Coolant line to expansion reservoir*
6 *Coolant line*
7 *Headlamps*
8 *Radiator crossmember*
9 *Rubber seal of radiator*
10 *ATF lines*
11 *Fan grille*
12 *Air guides*
13 *Clamps of air guides*
14 *Air conditioning system fluid reservoir*
15 *Radiator*
16 *Cover strips*
17 *Air deflector plate*
18 *Oil line (return line radiator! expansion reservoir of power steering pump)*
19 *Oil line (feed line steering gear! radiator)*
20 *Fasteners*
21 *Damper rubber*

Modification notes

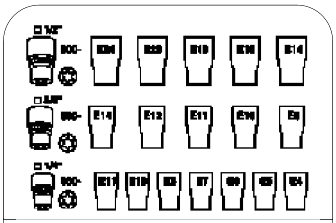
23.3.00	Radiator with integral oil cooler for power steering pump	See step 5 and 16	

	Remove/install		
i		External torx set	*001589760900
i		6 mm hexagon socket 7 mm hexagon socket	*WH58.30-Z-1001-06A *WH58.30-Z-1002-06A
1.1	Remove air deflector plate (17)	i Engine 113.942 only.	
⚠ **Danger!**	**Risk of injury** to skin and eyes from scalding due to contact with hot coolant spray. **Risk of poisoning** if coolant is swallowed.	Do not open cooling system unless coolant temperature is below 90 °C. Open cap slowly and release the pressure. Do not pour coolant into beverage bottles. Wear protective gloves, protective clothing and eye protection.	AS20.00-Z-0001-01A
2	Drain the coolant at the radiator	i To drain the coolant, detach coolant line at the bottom of the radiator or at the coolant pump. **Installation:** Replace the hose clamps on the radiator fitting for the coolant hose, as they could cause damage to the screw/thread. Nm Hose clamp	AR20.00-P-1142HA *BA20.20-P-1004-01A

3.1	Remove viscous fan (1)	ℹ Engine 112.942 /970 and 113.942. ℹ Right-hand thread!	AR20.40-P-5660C
3.2	Remove electric fan	ℹ Only Engine 113.965 /981.	AR20.40-P-5000GH
4.1	Pull off plate clamps of fan shroud (2)	ℹ Only for Engine 112.942, from 5/98.	
5.1	Remove fan shroud (3)	ℹ Only for Engine 112.942 /970 und 113.942. Unscrew the bolts at bottom of fan shroud for this step ℹ **Installation:** If installing a new radiator with integral power steering pump oil cooler, a new fan shroud is required if a radiator without integral oil cooler was previously installed.	
6	Remove headlamp (7).		AR82.10-P-4730GH
7	Remove radiator crossmember (8)		AR62.30-P-2300GH
8	Detach coolant line (4, 6) and expansion reservoir coolant line (5) at the radiator	**Installation:** Replace the hose clamps on the radiator fitting for the coolant hose, as they could cause damage to the screw/thread. Nm Hose clamp	*BA20.20-P-1004-01A
9	Remove the rubber seal on radiator (9)		
10.1	Remove oil line (return line of radiator ! power steering pump expansion reservoir) (18) and oil line (feed line of steering gear ! radiator) (19)	ℹ From 5/98 only, seal off the connections. Set of plugs	*129589009100
11	Unscrew ATF lines (10) at the radiator	ℹ Seal off the connections. Nm Nm Set of plugs	*BA20.20-P-1001-01A *BA20.20-P-1003-01A *129589009100
12.1	Detach the connector from the fan and remove the fan grille (11)	ℹ Only for Engine 112.942 /970 and 113.942.	
13	Unscrew the condenser from the radiator	ℹ Do not disconnect the lines.	
14	Remove fasteners (20) and damper rubber (21)	ℹ The damper rubber (21) is designed to prevent possible vibrations between the condenser and radiator (15) during off-road driving.	
15	Remove air conditioning system fluid reservoir (14) from the radiator	ℹ Place aside with the lines connected. Detach the condenser from the radiator.	
16	Remove radiator (15)	ℹ When installing, the spigots on the radiator must be inserted in the rubber grommets in the bottom crossmember. ℹ **Installation:** On Model 163.154 with Engine 112.942 before VIN end number 043553, when installing a new radiator with integral power steering pump oil cooler, additional operations are required, if they have not already been carried out:#	
v	Retrofit the bracket for the oil cooler line of the power steering pump		SM46.30-P-0002A
k	Radiator with integral oil cooler for the power steering pump		BT20.20-P-0001-01A
17	Detach air guides (12)	ℹ Replace the clamps on air guides (13).	
18	Install in the reverse order		
19	Pour in coolant		AR20.00-P-1142HA
20	Check the headlamp setting and correct if necessary		
e	Check and adjust the headlamp setting		AP82.10-P-8260GH
⚠ **Danger!**	**Risk of accident** caused by vehicle starting off when engine is running. **Risk of injury** caused by contusions and burns when working in engine during starting procedure	Secure the vehicle to prevent it from moving. Wear closed and snug-fitting work clothes. Do not grasp hot or rotating parts.	AS00.00-Z-0005-01A
21	Check the oil level in the automatic transmission and correct if necessary		AR27.00-P-0101A
22	Check the cooling system for leaks		AR20.00-P-1010HA

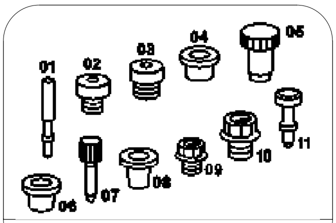
Nm Radiator, coolant hoses

Number	Designation		Engine 112.942/ 970, 113.942/ 965/981
BA20.20-P-1001-01A	Union nut on automatic transmission ATF line to radiator	Nm	20
BA20.20-P-1003-01A	Banjo bolt M12X1.5	Nm	30
BA20.20-P-1004-01A	Hose clamp	Nm	3



001 589 76 09 00

External Torx set



129 589 00 91 00

Set of plugs

Commercially available tools

Number	Designation	Make (e. g.)	Order number
WH58.30-Z-1001-06A	6 mm hexagon socket on flexible shaft for hose clamps with worm drive	Hazet Güldenwerther Bahnhofstraße 25-28 D-42857 Remscheid	426-6
WH58.30-Z-1002-06A	7 mm hexagon socket on flexible shaft for hose clamps with worm drive	Hazet Güldenwerther Bahnhofstraße 25-28 D-42857 Remscheid	426-7